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Subject Classification  
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Classification thématique  
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## 0000 GENERAL

- 0100 Communication, education, history, and philosophy
- 0200 Mathematical methods in physics
- 0300 Classical and quantum physics: mechanics and fields
- 0400 General relativity and gravitation
- 0500 Statistical physics and thermodynamics
- 0600 Metrology, measurements, and laboratory procedures
- 0700 Specific instrumentation and techniques of general use in physics

## 1000 THE PHYSICS OF ELEMENTARY PARTICLES AND FIELDS

- 1100 General theory of fields and particles
- 1200 Specific theories and interaction models; particle systematics
- 1300 Specific reactions and phenomenology
- 1400 Properties of specific particles

## 2000 NUCLEAR PHYSICS

- 2100 Nuclear structure
- 2300 Radioactive decay and in-beam spectroscopy
- 2400 Nuclear reactions: general
- 2500 Nuclear reactions: specific reactions
- 2700 Properties of specific nuclei listed by mass ranges
- 2800 Nuclear engineering and nuclear power studies
- 2900 Experimental methods and instrumentation for elementary-particle and nuclear physics

## 3000 ATOMIC AND MOLECULAR PHYSICS

- 3100 Electronic structure of atoms and molecules: theory
- 3200 Atomic spectra and interactions with photons
- 3300 Molecular spectra and interactions of molecules with photons
- 3400 Atomic and molecular collision processes and interactions
- 3500 Experimentally derived information on atoms and molecules; instrumentation and techniques
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## 4000 FUNDAMENTAL AREAS OF PHENOMENOLOGY (INCLUDING APPLICATIONS)

- 4100 Electromagnetism; electron and ion optics
- 4200 Optics
- 4300 Acoustics
- 4400 Heat transfer, thermal and thermodynamic processes
- 4600 Classical mechanics
- 4700 Fluid dynamics

## 5000 FLUIDS, PLASMAS, AND ELECTRIC DISCHARGES

- 5100 Kinetic and transport theory of fluids; physical properties of gases
- 5200 The physics of plasmas and electric discharges

## 6000 CONDENSED MATTER: STRUCTURE, MECHANICAL AND THERMAL PROPERTIES

- 6100 Structure of solids and liquids; crystallography
- 6200 Mechanical and acoustical properties of condensed matter
- 6300 Lattice dynamics
- 6400 Equations of state, phase equilibria, and phase transitions
- 6500 Thermal properties of condensed matter
- 6600 Transport properties of condensed matter (nonelectronic)
- 6700 Quantum fluids and solids; liquid and solid helium
- 6800 Surfaces and interfaces; thin films and whiskers (structure and nonelectronic properties)

## 7000 CONDENSED MATTER: ELECTRONIC STRUCTURE, ELECTRICAL, MAGNETIC, AND OPTICAL PROPERTIES

- 7100 Electron states
- 7200 Electronic transport in condensed matter
- 7300 Electronic structure and electrical properties of surfaces, interfaces, and thin films
- 7400 Superconductivity
- 7500 Magnetic properties and materials
- 7600 Magnetic resonances and relaxations in condensed matter, Mössbauer effect
- 7700 Dielectrics, piezoelectrics, and ferroelectrics and their properties
- 7800 Optical properties and condensed-matter spectroscopy and other interactions of matter with particles and radiation
- 7900 Electron and ion emission by liquids and solids; impact phenomena

## 8000 CROSS-DISCIPLINARY PHYSICS AND RELATED AREAS OF SCIENCE AND TECHNOLOGY

- 8100 Materials science
- 8200 Physical chemistry
- 8300 Rheology
- 8400 Electromagnetic technology
- 8500 Electrical and magnetic devices
- 8700 Biophysics and medical physics
- 8900 Other areas of research of general interest to physicists

## 9000 GEOPHYSICS, ASTRONOMY, AND ASTROPHYSICS

- 9100 Solid Earth physics
- 9200 Hydrospheric and atmospheric geophysics
- 9300 Geophysical observations, instrumentation, and techniques
- 9400 Aeronomy and magnetospheric physics
- 9500 Fundamental astronomy and astrophysics; instrumentation, techniques, and astronomical observations
- 9600 Solar System
- 9700 Stars
- 9800 Stellar systems; galactic and extragalactic objects and systems; the Universe